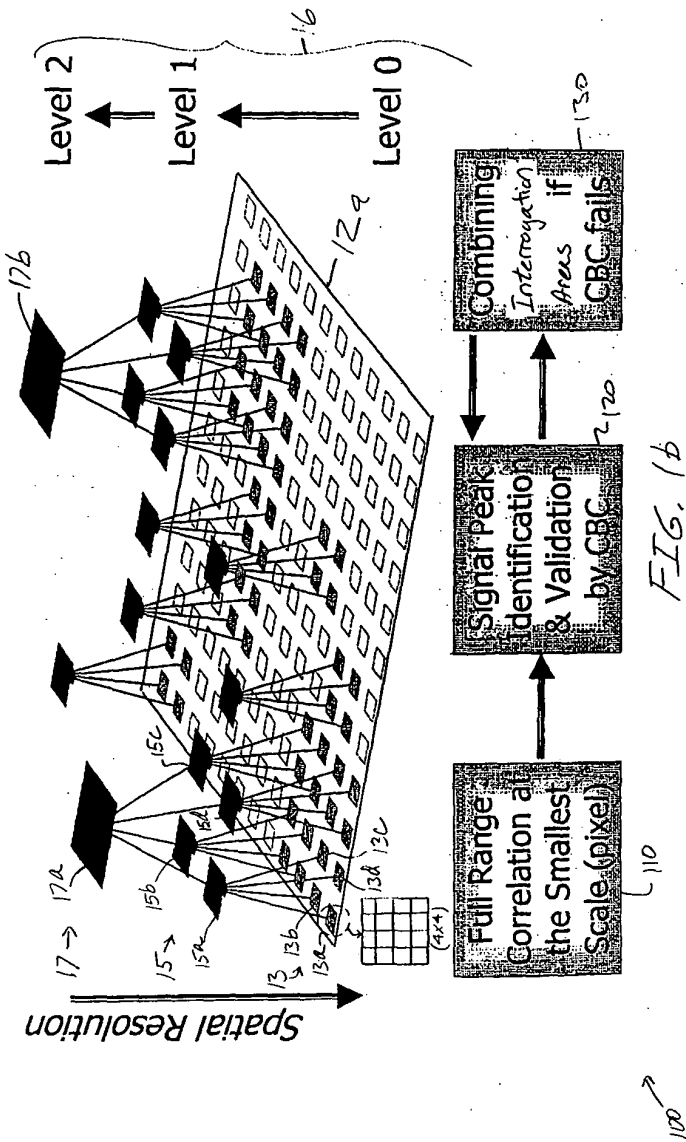


FIG. 1a



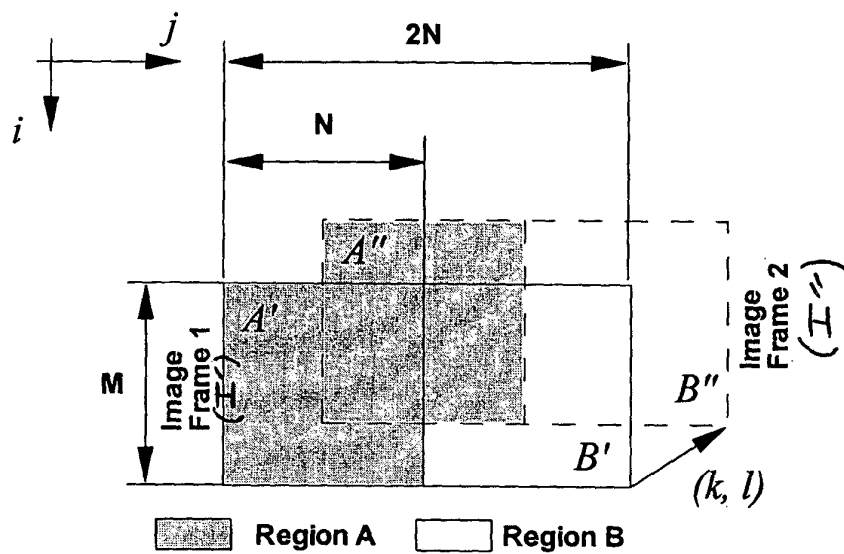


FIG. 2

A METHOD OF MULTI-RESOLUTION ADAPTIVE CORRELATION PROCESSING

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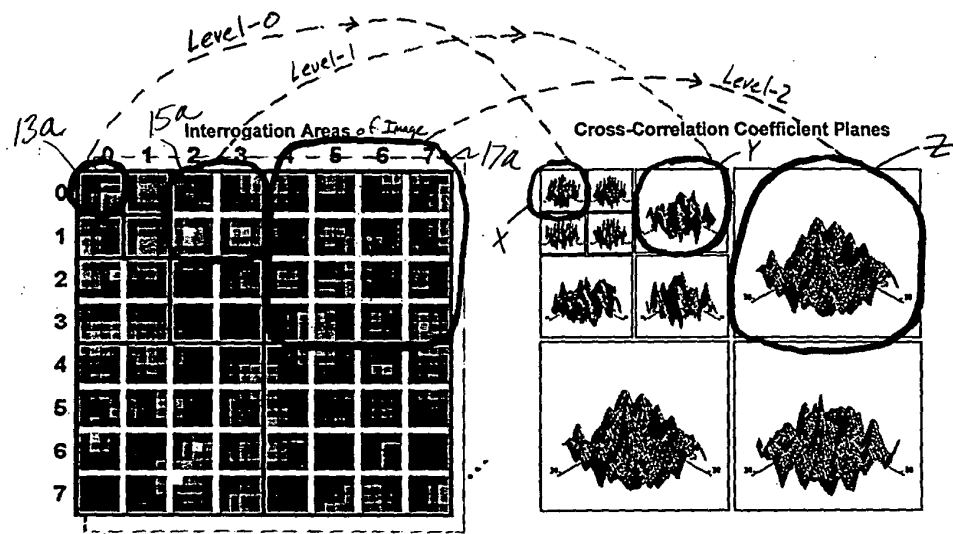


FIG. 3a

FIG. 3b

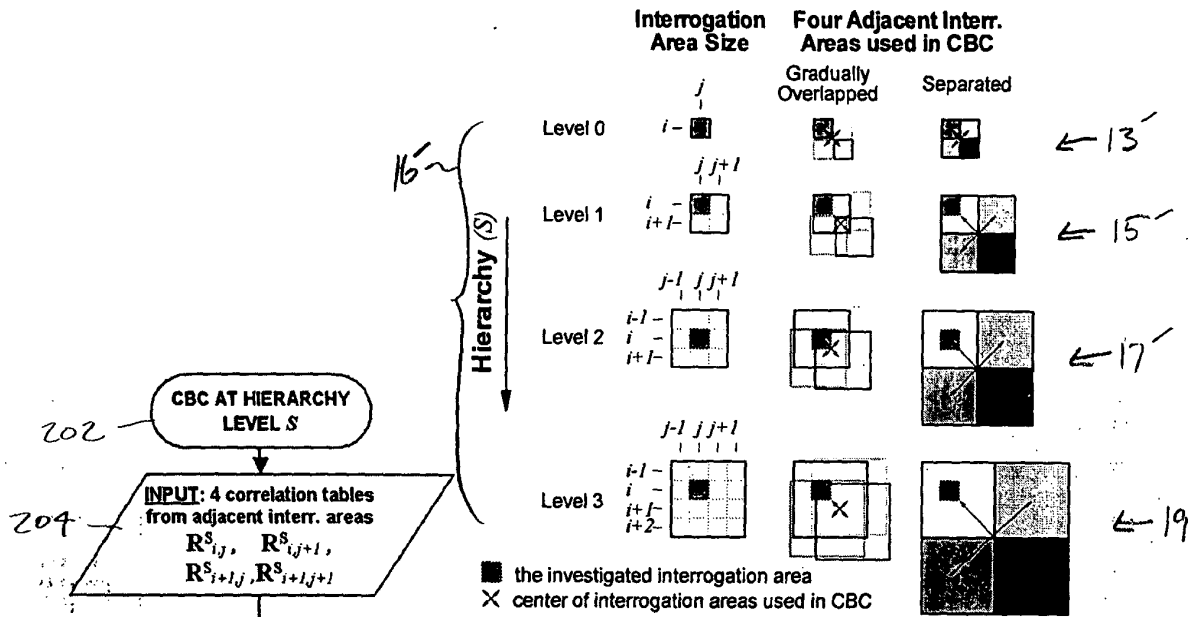


FIG. 4b

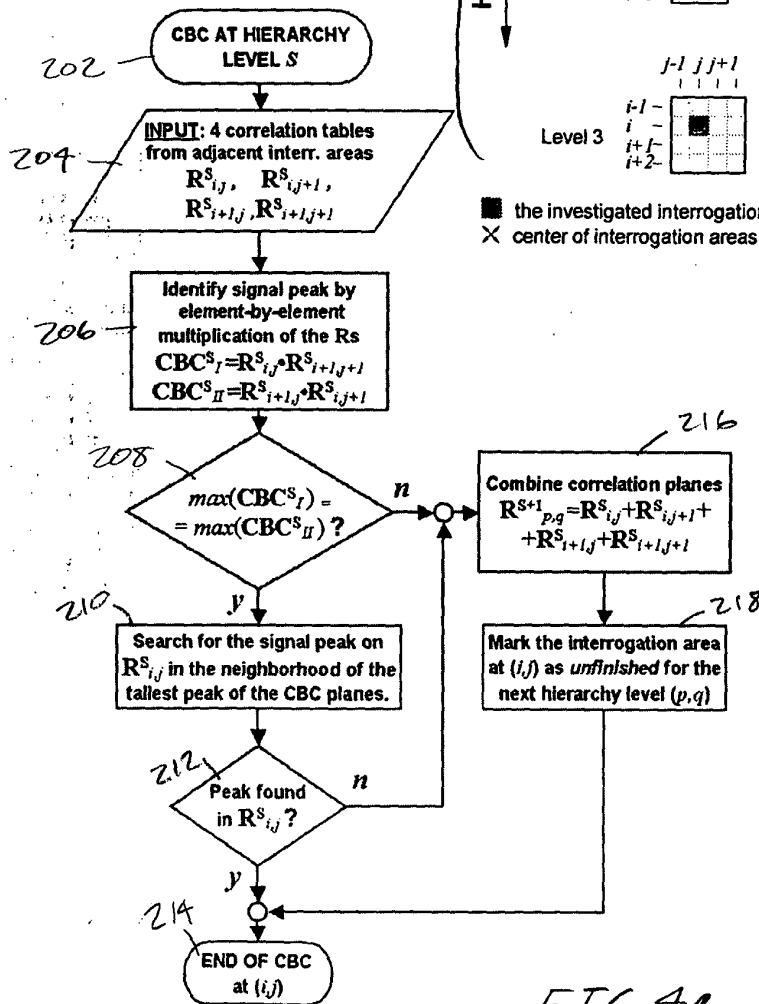


FIG. 4a

Full image size.....: $(M+2\delta) \times (M+2\delta)$ pixels
 Smallest interr. area size..: $N \times N$ pixels
 Search length.....: $\delta \times \delta$ pixels
 No. of spatial hierarchy
 levels.....: S

Combining interr.
 areas ($S=4$)

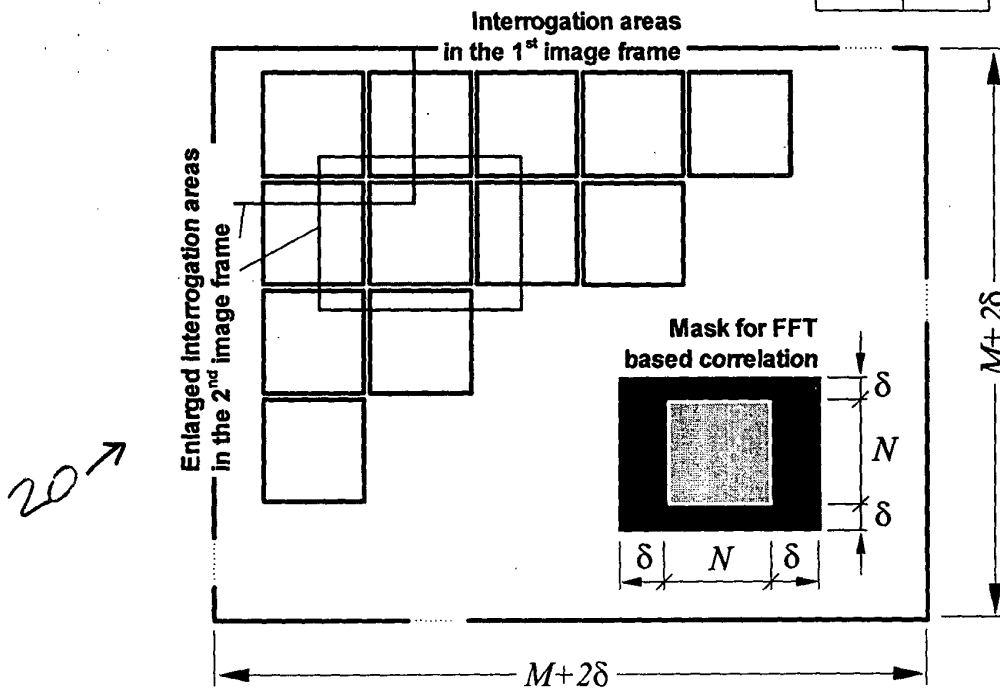
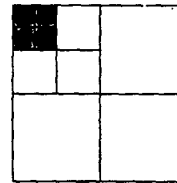


FIG. 5

FIG. 6a

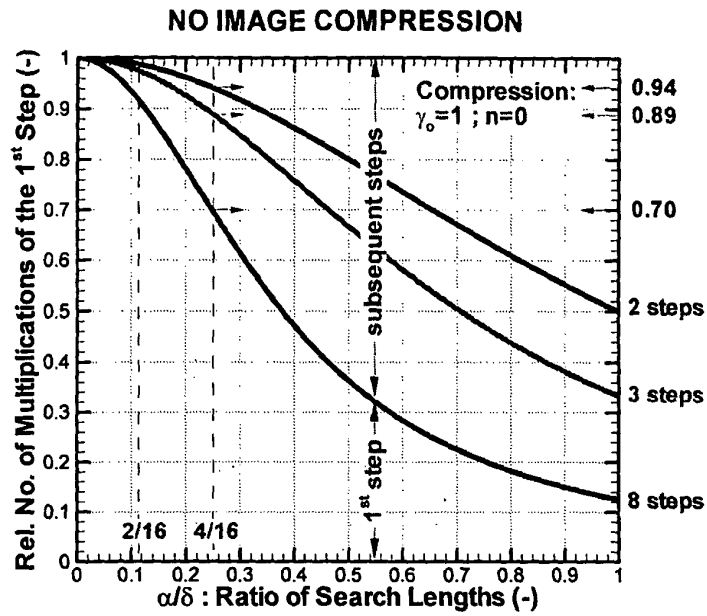
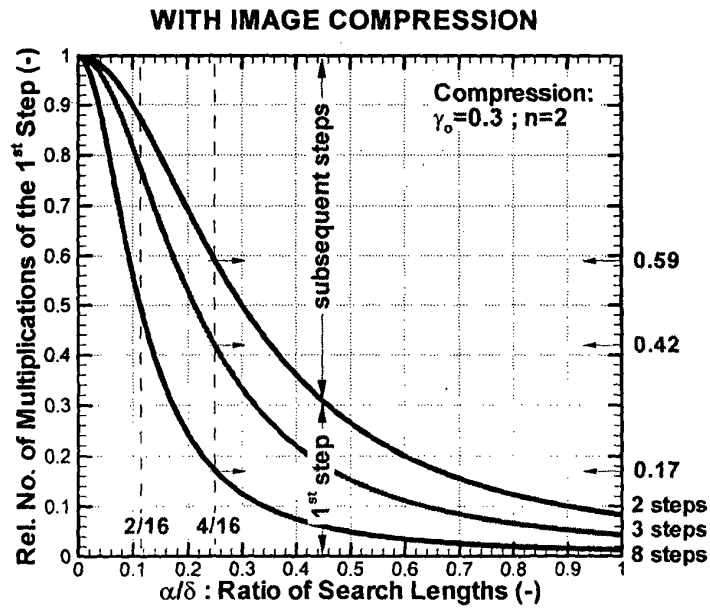


FIG. 6b



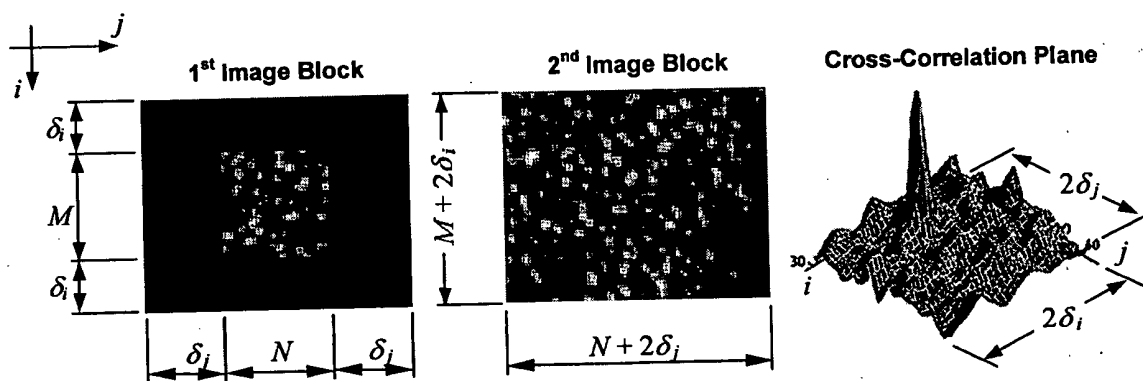


FIG. 7a

FIG. 7b

FIG. 7c

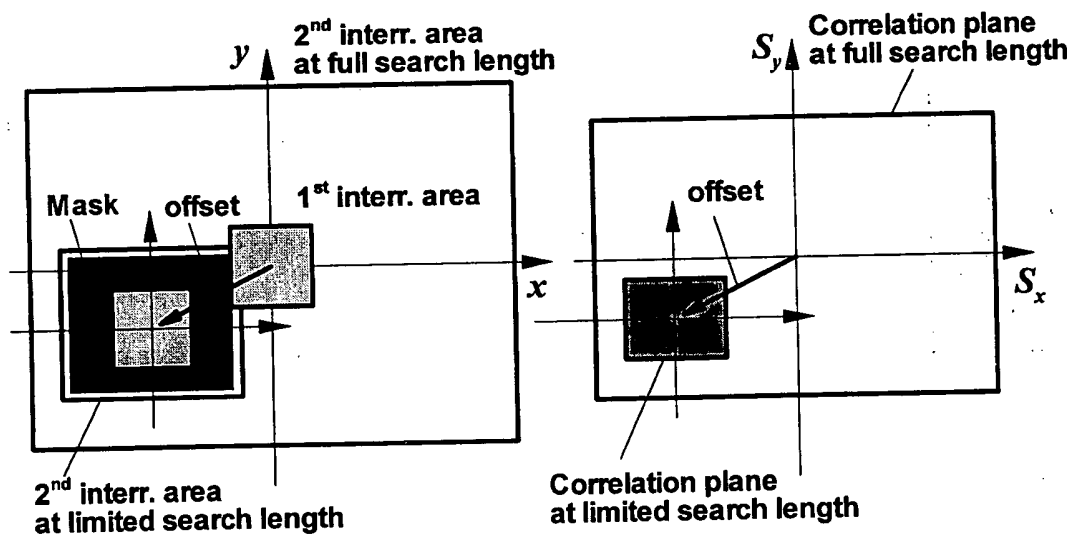


FIG. 8

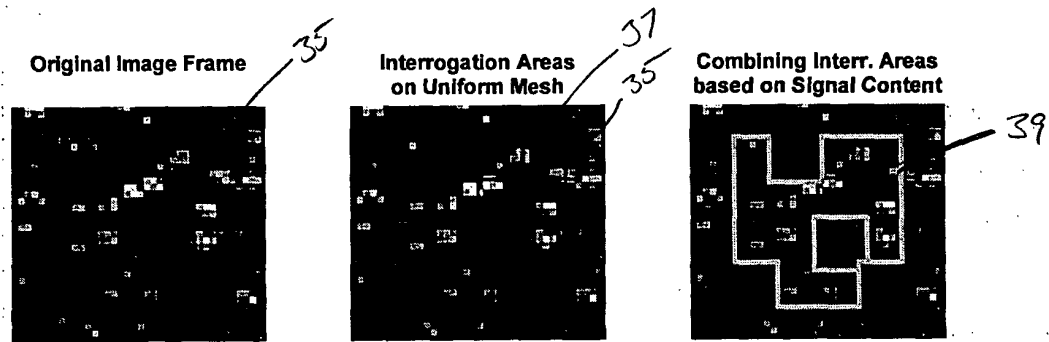


FIG. 9a

FIG. 9b

FIG. 9c

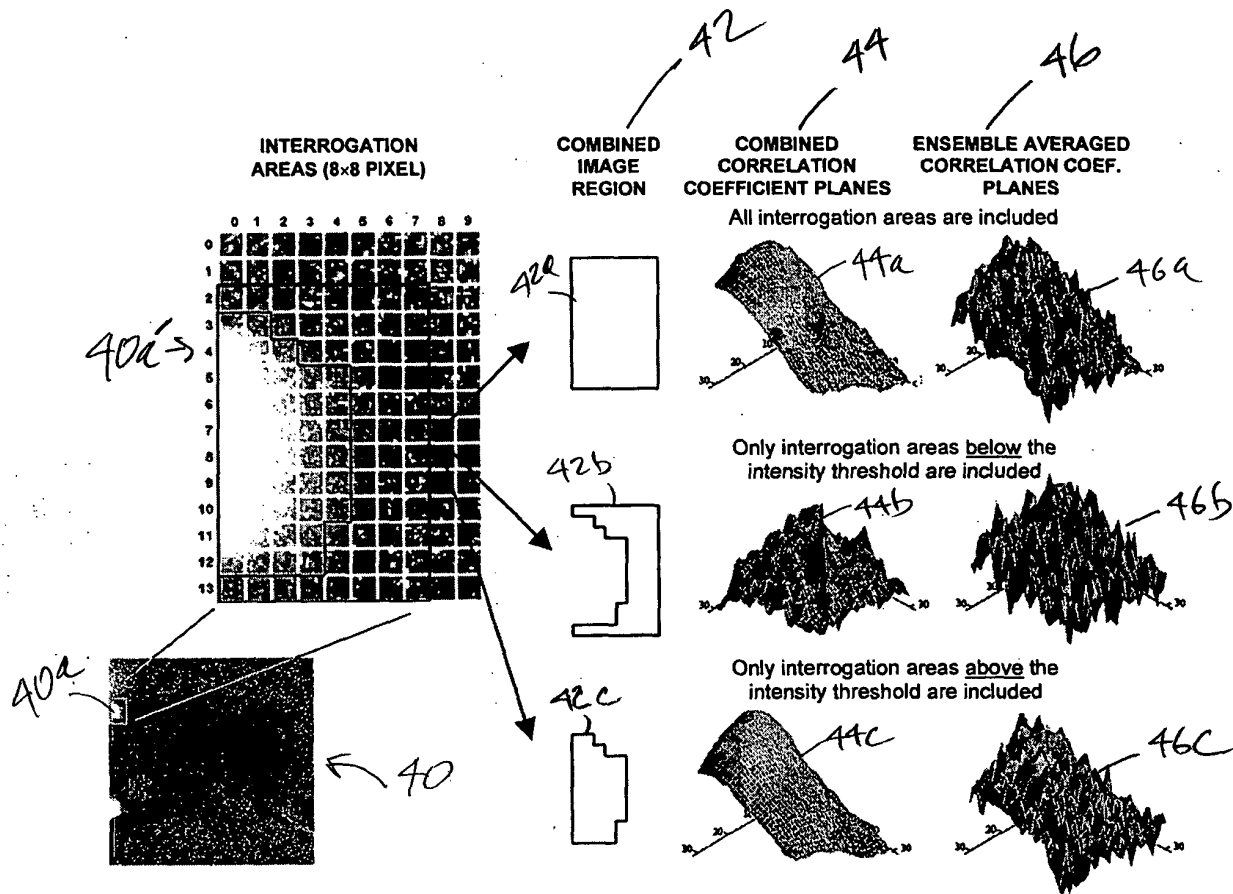


FIG. 10

A METHOD OF MULTI-RESOLUTION ADAPTIVE CORRELATION PROCESSING

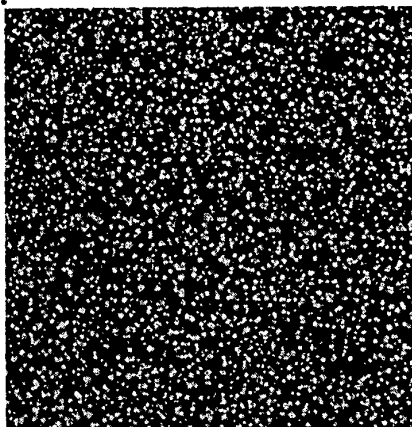
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VSJ PIV STANDARD IMAGE #23: 3D JET IMPINGEMENT/DENSE PARTICLE

FIG. 11a

First Image Frame



Overlaid 1st and 2nd Image Frames

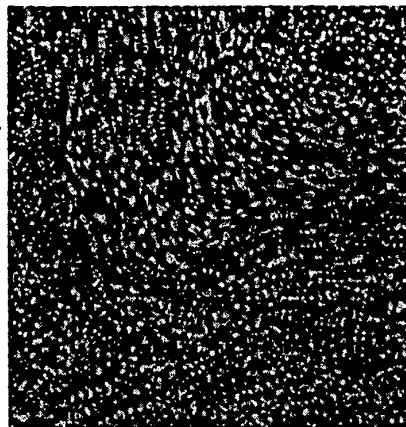
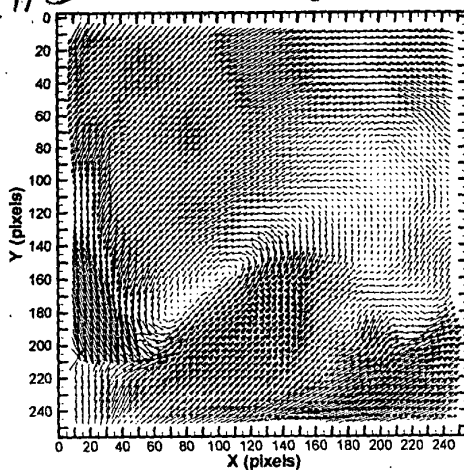


FIG. 11b

FIG. 11c

Vector Field on a Regular Mesh



Distribution of Interrogation Area Size

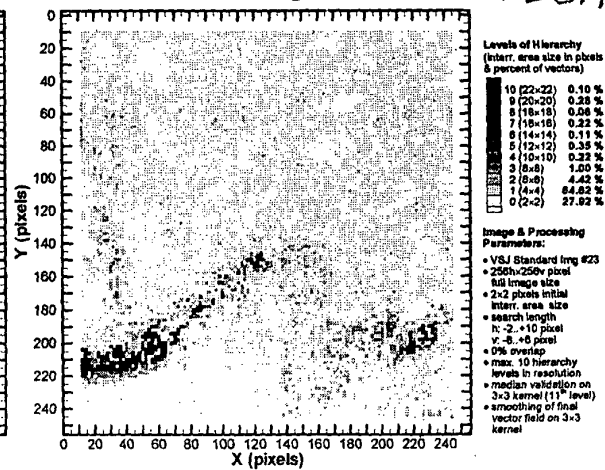
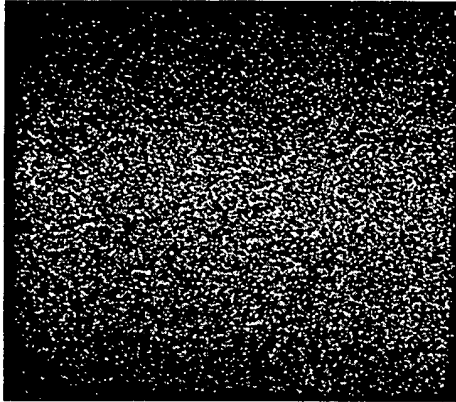


FIG. 11d

HIGH REYNOLDS NUMBER SWIRLING FLOW UNDERGOING SUDDEN EXPANSION

FIG. 12a

First Image Frame



Overlaid 1st and 2nd Image Frames

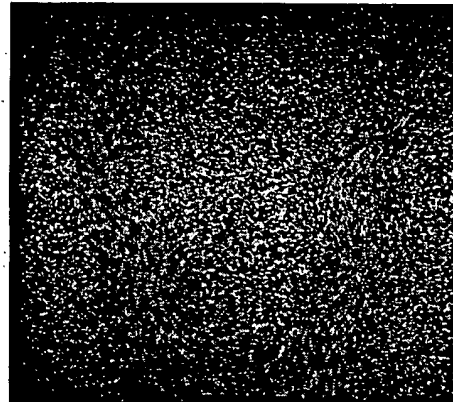
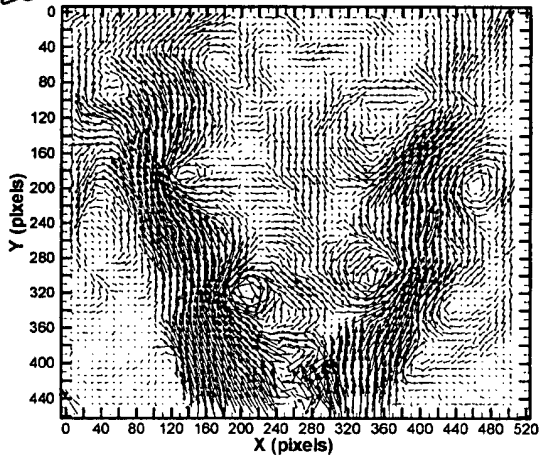


FIG. 12b

FIG. 12c

Vector Field on a Regular Mesh



Distribution of Interrogation Area Size

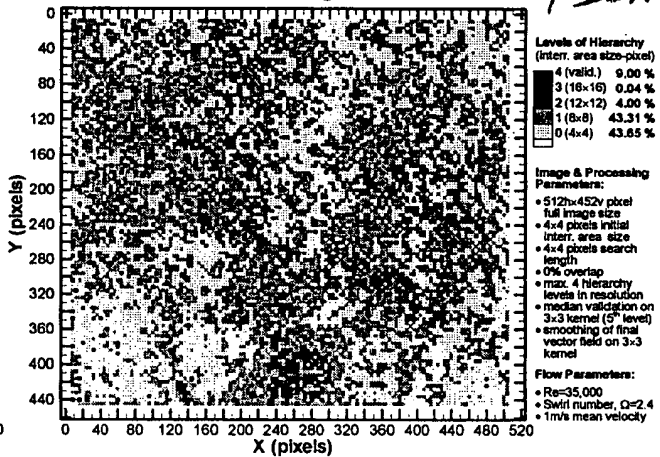


FIG. 12d